

WHAT IS CLAIMED IDS:

1. A power supply system by use of a vehicle, comprising:  
an alternator that generates electric power according  
to the number of revolutions of an engine mounted in a vehicle  
5 and charges a predetermined battery;

output means for outputting the electric power from said  
charged battery to the outside;

power generation control means that detects the current  
amount of the electric power transmitted from said battery to  
10 said output means and sets the number of engine revolutions  
according to the detected current amount; and

engine control means that controls the number of  
revolutions of said engine in accordance with the number of  
engine revolutions set by said power generation control means.

15 2. The power supply system by use of a vehicle according  
to Claim 1, wherein

said power generation control means transmits, only  
during detecting the current amount over the current immediately  
20 before exceeding the current amount of the electric power  
generated in the usual idling state, the set number of engine  
revolutions to said engine control means, and

said engine control means, only during receiving the  
number of engine revolutions from said power generation control  
25 means, controls said engine in accordance with the received

number of engine revolutions, and when said engine control means does not receive the number of engine revolutions, said engine control means controls said engine in accordance with the number of engine revolutions in the usual idling state.

5

3. The power supply system by use of a vehicle according to Claim 1, wherein

10 said power generation control means, in case that the detected current amount is a value over the current amount immediately before exceeding the current amount of the electric power generated in the usual idling state, finds the difference between the set number of engine revolutions and the number of engine revolutions in the usual idling state and transmits the difference to said engine control means; and said power  
15 generation control means, in case that the detected current amount is a value below the current amount immediately before exceeding the current amount of the electric power generated in the usual idling state, transmits the difference as zero to said engine control means, and

20 said engine control means, upon reception of the difference from said power generation control means under the state where said engine control means controls said engine at the number of engine revolutions in the usual idling state, controls said engine in accordance with the number of engine  
25 revolutions obtained by adding the difference to the number

of engine revolutions in the usual idling state.

4. The power supply system by use of a vehicle according to Claim 1, wherein

5 said output means are provided in a car room and out of a vehicle.